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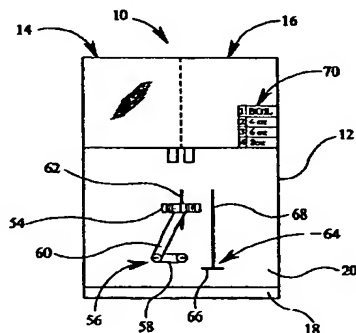
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(54) Title: APPARATUS AND METHOD FOR MILK PREPARATION FROM MILK POWDER



(57) Abstract: Formula milk preparation apparatus (10) comprises a support structure (12), and first and second containers (14) and (16) supported by the support structure (12). The first container (14) is adapted to hold a liquid, and the second container (16) is adapted to hold powdered formula milk. Means (24) for regulating the temperature of the contents of the first container (14) is provided, as is means (26, 32) for dispensing an amount of content of the first and second containers (14) and (16). Means (56) for mixing together the contents dispensed from the first and second containers, and means for cooling the contents dispensed from the first and second containers to a temperature suitable for consumption are also provided. A method of using the apparatus is also provided.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 223 754 A (WEYHAUSEN F. & CO.) 3 March 1971 (1971-03-03) page 2, line 16 - line 60 page 2, line 101 -page 3, line 25; figures ----	1-4, 12-23
X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 11, 26 December 1995 (1995-12-26) -& JP 07 200944 A (FUJI ELECTRIC CO LTD), 4 August 1995 (1995-08-04)	1-3,9, 12, 14-17, 19-23
Y	abstract; figures ----- -/--	6,11



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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 10, 17 November 2000 (2000-11-17) -& JP 2000 194926 A (SANDEN CORP), 14 July 2000 (2000-07-14) abstract; figures ----	6,11
X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 04, 31 March 1998 (1998-03-31) -& JP 09 330468 A (SANDEN CORP), 22 December 1997 (1997-12-22) abstract; figure 1 ----	1,2,12, 16,17, 22,23
A	EP 0 040 370 A (CESANA E OFF MEC) 25 November 1981 (1981-11-25) page 4, line 1 -page 5, line 7; figures 1-3 ----	1-3,16, 22,23
A	WO 82 00240 A (ASKOV MEJERI AS ;FREDSGAARD E (DK); HENRIKSEN J (DK); ERHALD F (DK) 4 February 1982 (1982-02-04) figures ----	1-3,16, 22,23
A	US 3 011 893 A (KNEELAND JOHN A) 5 December 1961 (1961-12-05) the whole document ----	1-23
A	US 2 694 556 A (LEVIN ABRAHAM S) 16 November 1954 (1954-11-16) figures ----	1
A	US 2 566 555 A (BECKER JOSEPH L ET AL) 4 September 1951 (1951-09-04) figures -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 03/01982

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 1223754	A	03-03-1971	DE 1557243 A1 ES 351111 A1 FR 1556053 A	06-11-1969 01-12-1969 31-01-1969
JP 07200944	A	04-08-1995	NONE	
JP 2000194926	A	14-07-2000	NONE	
JP 09330468 6	A		NONE	
EP 0040370	A	25-11-1981	IT 1130608 B EP 0040370 A2	18-06-1986 25-11-1981
WO 8200240	A	04-02-1982	DK 316180 A AU 7452181 A WO 8200240 A1 EP 0056411 A1	23-01-1982 16-02-1982 04-02-1982 28-07-1982
US 3011893	A	05-12-1961	NONE	
US 2694556	A	16-11-1954	NONE	
US 2566555	A	04-09-1951	NONE	